

MALIKOVA, Ye.M., kand. biol.nauk, otv. red.; LISHEV, M.N., kand.
biol. nauk, red.; NIKOLAYEV, I.I., kand. biol. nauk;
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Alfalfa

Summer sowing of alfalfa in the south of the
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(Odessa Province--Peas)

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GARKAVYY, P.F., kand. sel'khoz. nauk, red.; DOLGUSHIN, D.A.,
akademik, red.; KIRICHENKO, F.G., akademik, red.;
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N.F., doktor sel'khoz. nauk, red.; KHITRINSKIY, V.F., doktor
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red.; VENGELNICK, L.I., red.

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(Radio--Receivers and reception)

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[Design of radio transmitters] Proektirovanie radiope-
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SHEYFIS, Isaak Iosifovich; VARBANSKIY, A.M., otv. red.; VENGRENYUK,
L.I., red.; CHURAKOVA, V.A., tekhn. red.

[Improvement of the quality indices of the video channels of
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(Television)

TSYKIN, Georgiy Sergeyevich; VENGRENYUK, L.I., red.; GRISHINA, L.A.,
tekhn. red.

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DOBRCVOL'SKIY, Yevgeniy Yevgen'yevich; ROZOV, V.M., otv.red.; ~~LENGREZNIK~~
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[Radio communication equipment and its use in district and province communication] Oborudovanie dlia vnutrioblastnykh i vnutriraiionnykh radiosv'язei i ego ekspluatatsiia. Moskva, Gos.izd-vo lit-ry po voprosam sv'язi i radio, 1959. 69 p. (MIRA 12:12)
(Radio)

ALEKSEYEV, Konstantin Alekseyevich; GREL'YANENKO, Yuriy Ivanovich;
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voprosam svyazi i radio, 1960. 31 p. (MIRA 14:7)
(Kiev--Television stations)

VENGRENYYUK, L. I.

PHASE I BOOK EXPLOITATION SOV/3668

USSR. Ministerstvo svyazi. Tekhnicheskoye upravleniye

Issledovaniye zametnosti iskazheniy v radioveshchatel'nykh kanalakh; informatsionnyy sbornik (Study of the Discernibility of Distortions in Radio Broadcasting Channels; Collection of Information Articles) Moscow, Svyaz'izdat, 1959. 120 p. (Series: Tekhnika svyazi) 10,200 copies printed.

Resp. Ed.: I.Ye. Goron; Ed.: L.I. Vengrenyuk; Tech. Ed.: K.G. Markoch.

PURPOSE: This collection of articles is intended for broadcast specialists and persons concerned with the design and manufacture of broadcasting equipment.

COVERAGE: This collection is based on studies made at various institutes of the Ministry of Communications USSR, in the field of quality indices of radio broadcasting channels. The major part of this research was done jointly under the general scientific supervision of Professor I.Ye. Goron, by the Scientific Research

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Study of the Discernibility (Cont.)

SOV/3668

Institute of the Ministry and the Departments of Radio Broadcasting and Acoustics of the Moscow and Leningrad Institutes of Communications. The Nauchno-issledovatel'skiy institut gorodskoy i sel'skoy telefonnoy svyazi Ministerstva svyazi (Scientific Research Institute of Urban and Rural Telephone Communication of the Ministry of Communications) in Leningrad participated in the development of some of the research equipment. The studies aimed at establishing a connection between an objective rating of various distortions and interference occurring in broadcasting channels, and their subjective perception. In accordance with this aim, investigations were conducted by applying the method of subjective statistical examination. The instrumentation of this study necessitated development of a complete set of equipment which permitted practically undistorted sound reproduction and injection into the channel of measured amounts of distortions and interference. The collection contains 11 articles covering the basic trends of the study. The materials compiled in this book have been used as a basis for working out the departmental technical specifications of the Ministry of Communications. "Kanaly radioveshchatel'nyye.. Normy na osnovnyye kachestvennyye pokazateli"

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Study of the Discernibility (Cont.)

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("Broadcast Channels. Standards of Basic Quality Indices").
No personalities are mentioned. References accompany four
articles.

TABLE OF CONTENTS:

Foreword

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Goron, I.Ye., and O.A. Postnikova. Study of Distortion Perception
in Broadcast Channels

5

The authors discuss problems related to distortions, re-
search procedures, methods and results, and establishment of
channel quality indices. There are 24 references: 3 Soviet,
17 English, 3 German, and 1 Italian.

Goron, I.Ye. Principles of Quality Indices Classification

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The author proposes a quality classification based on the
principle of allocation of a certain degree of distortion
perception to each of various quality classes.

Stanislavskaya, I.B. Study of Frequency Band Limitation Dis-
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Study of the Discernibility (Cont.)

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cernibility

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In order to study this problem, an experimental channel is used. It consists of non-distortional elements: tape recorder, amplifier-separator, and speaker assembly; and a distortion introducing element in the form of a filter box which limits the upper and lower sides of the reproduced frequency band. In the experiments on limiting effect of the frequency band's upper side, transmissions having high frequency components up to 12,000 cps have been used, and in limiting the lower part of the band, components down to 40 cps have been used.

Askinazi, G.B., and I.B. Stanislavskaya. Study of Frequency Distortion Discernibility

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This article is the development and completion of a study of the effect of frequency band limitation on sound quality in broadcast transmission. It is an analysis of all possible frequency characteristic deviations, such as response curves with dips and peaks, appearing near the band cut-off, and their effect on sound quality. The results are presented in the form of graphs.

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Study of the Discernibility (Cont.)

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Askinazi, G.B., and I.B. Stanislavoskaya. Study of Interference and Distortion Discernibility Within the Dynamic Range 44

The study of such an important sound quality index as the dynamic range must be divided into two parts: analysis of program range and study of interference effect. The authors performed a series of experiments on dynamic range limitation, compression discernibility, and various forms of interference and noise discernibility. The results of this study are illustrated by 12 graphs. There are 10 references: 5 Soviet and 5 English.

Postnikova, O.A., and N.S. Kuz'mina. Study of Pulse Interference Discernibility 63

In examination of pulse interference discernibility, a basic method similar to that accepted for other types of distortions is applied. The results of the experiments are presented in 3 graphs and 2 spectrograms. There are 11 references, all Soviet. 68

N.S. Kuz'mina. Study of Nonlinear Distortion Discernibility 69
This study was carried out by the author during transmission

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Study of the Discernibility (Cont.)

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of miscellaneous fragments of recorded programs through a broad-band distortionless channel (higher class) and then through a narrow-band channel (third class). The two remaining classes were investigated at the (Leningrad Electrical Institute of Communications) Leningradskiy Elektrotekhnicheskii Institut Svyazi. The results of the study are shown in 13 graphs. There are 21 references: 12 Soviet, 3 German, 5 English, and 1 Italian.

Kuz'mina, N.S., I.B. Stanislavskaya, and G.B. Askinazi. Interference Effect (Background Noise) on Nonlinear Distortion Audibility

85

The authors studied the audibility of complex disturbances. The authors conclude that an irregularity of frequency characteristic involving either peaks, or a combination of peaks and dips, at total irregularity of 10-20 db, has no practical effect on nonlinear distortion and noise discernibility. The results obtained are presented in 17 graphs.

Postnikova, O.A., and I.B. Stanislavskaya. Effect of Frequency Characteristic Irregularity on the Perception of Nonlinear Distortion and Noise

91

Typical of broadcast channels is a combination of frequency and Card 6/8

Study of the Discernibility (Cont.)

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nonlinear distortion, as well as noise. Frequency distortion in the form of response curve irregularity is introduced basically by the initial link (microphone) and the terminal link (speaker) of the channel. Noise is introduced by the intermediate links. Intermediate and terminal links of the channel are sources of nonlinear distortion. The experimental channel designed by the authors simulated the above conditions. It was possible to plot 2 curves illustrating the distortion examined with a given irregularity and without it, and also to establish effect of frequency characteristic on distortion discernibility.

Genzel', G.S. Study of Crosstalk Interference Audibility

98

The author studies audio perception of interference against the background of basic broadcast programs. The testing channel designed for that purpose permits mixing the simulated interference with basic program signals at various crosstalk levels. The experimental channel was designed by Engineers V.N. Barburkin, L.L. Grigorovitch, Ye.T. Plotkin, and G.S. Pol'ferova of the Department of Broadcasting and Acoustics of Leningrad Electrotechnical Institute of Communications. The results of the

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Study of the Discernibility (Cont.)

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experiments are presented in 2 graphs.

Askinazi, G.B. Mathematical Methods of Processing Data. Examined
by the Experts 103

The study of distortion and interference discernibility in broadcast channels was made with the aid of subjective opinion of experts. In order to eliminate individual differences between the experts' ability to observe distortions, and obtain data depending only upon typical properties of the human ear, the method of mathematical analysis of statistical data was applied to the results of the observations made by large numbers of participants in the experiments. The quantity sought was the discernibility of a given distortion determined by typical and not by individual properties of the human ear.

AVAILABLE: Library of Congress

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7-25-60

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ACC NR: AP7002665

SOURCE CODE: UR/0109/67/012/001/0076/0086

AUTHOR: Litovchenko, V. G., Frolov, O. S., Vengris, S. A., Serba, A. A.
Sadovnichiy, A. A.

ORG: none

TITLE: Photoelectric characteristics of the capacitance of a surface charge varicap

SOURCE: Radiotekhnika i elektronika, v. 12, no. 1, 1967, 76-86

TOPIC TAGS: varactor diode, silicon semiconductor, *photoelectric property*

ABSTRACT: The photoelectric properties of the spacecharge capacitance of metal-oxide-silicon (MOS) varicaps were studied. The varactors were made from rectangular high-resistance (5×10^1 — 5×10^2 ohms/cm) photosensitive silicon chips (dimensions, $15 \times 5 \times 0.5$ mm). The varicap was made from one part of the chip (area of the semitransparent metallic electrode, $\sim 10^{-2}$ — 1 mm²; thickness of the oxide, $\sim 0.3 \mu$). The other part of the chip was used for photoconductance measurements from which the level of injection of electron-hole pairs Δn was calculated. The varicap was illuminated with a tungsten incandescent lamp; the intensity was varied with platinum filters. The capacitance of the samples was

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measured with a resonance circuit in the 50-100-Mc frequency range at different bias voltages; the maximum amplitude of the measuring a-c signal applied to the varactor was 25 mv. Two types of varactors were studied: 1) those with low lateral resistance (the dielectric layer had $\rho_{ok} \approx 10^8$ ohms/cm); 2) those with high lateral resistance ($\rho_{ok} \approx 10^{11}$ ohms/cm). Capacitance was found to increase with increasing light intensity and to decrease with increasing reverse bias in both cases. Capacitance was also found to decrease with increasing frequency in both types of varactor. Orig. art. has: 10 figures and 3 formulas.

SUB CODE: 0936/ SUBM DATE: 03Aug65/ORIG REF: 004/ OTH REF: 007/

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stream of metals during pouring into the ladle with CaO 50
 FeO 30, SiO_2 15, and Na_2CO_3 5%. The materials
were added (a) in particle size 0.1-0.3 mm and permixed,
or (b) in particle size 1-3 mm, also separately in the order
 CaO , SiO_2 , FeO , Na_2CO_3 , and FeO . The total dephos-
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11
4520

1-100

11

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USSR / Farm Animals. General Problems

Abs Jour: Ref Zhur-Biol., No 5, 1958, 21437

Author : Faytel'berg R. O., Vengrzhanovskiy P. N.

Inst :

Title : Measures to Increase the Content of Vitamin A in
Cattle (Meropriyatiya po povysheniyu soderzhaniya
vitamin A v organizme krupnogo rogatogo skota)

Orig Pub: V pomoshch' s. kh. i rybovodstvu. Vyp. I Odessa,
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Abstract: It was established that the content of vitamin A
in the blood of cows decreases sharply in the month
of January. In case of carotene deficiency in the
feed rations, it is recommended to inject cows one
month before calving with 150,000 units of concentrate
vitamin A, every other day and reproducing cows with
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Card 1/1

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